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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/420,478	10/19/1999	Roy Mathieu	S1022/8263	2856	
75	590 08/14/2002				
JAMES H MORRIS WOLF GREENFIELD AND SACKS PC Federal Reserve Plaza			EXAMINER		
			HA, NATHAN W		
600 Atlantic Avenue BOSTON, MA 02210-2211			ART UNIT	PAPER NUMBER	
			2814	2814	
			DATE MAILED: 08/14/2002	DATE MAILED: 08/14/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		KIV.				
	Application No.	Applicant(s)				
	09/420,478	MATHIEU, ROY				
Office Action Summary	Examiner	Art Unit				
	Nathan W. Ha	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period vortice to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONET.	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 14 J	lune 2002 .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
, -						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 14	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)				

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DETAILED ACTION

(Same as previous Office Action)

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Applicant's admitted prior art in view of Whitney (WO 95/04374, IDS, previously cited.)

In regard to claim 1, in figs 1-3, the Applicant's admitted prior art discloses a high voltage component formed in a region of a silicon substrate 1 of a first conductivity N-type delimited by a wall 2 of the second conductivity P-type, having a lower surface including a first region 6 or 11, in fig. 3, of the second conductivity type connected to the wall 2, and an upper surface including at least a second region 4 of the second conductivity type; further including a third region 10 of the first conductivity type of high doping level formed in the substrate under a portion of the track L. The Applicant's admitted prior art also includes field plate 13 that insulted from the track, however, it does not expressly show the third region being contacted by the field plate 13.

Whitney, in fig. 2, discloses a high voltage component having a field plate 31 being in contact with heavily doped N-type region 35 in order to prevent such surface charge induced breakdown as taught by Whitney on page 9, lines 25-29.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to connect field plate to the thirst heavily doped region as taught by Whitney in order to prevent such surface charge induced breakdown since field plate would provide a uniform surface potential.

In regard to claim 2, in fig. 2, Whitney further discloses the field plate 36 extends beyond the third region in the wall direction over a distance greater then 10 μ m in order to cover the entire junction termination below. Therefore, it would have been obvious to one of ordinary skill in the are at the time of the invention was made to extend the field plate in order to cover the entire junction termination below since field plate isolates the surface charges that accumulate on the passivating layer from distorting the electrical characteristics of the junction termination.

In regard to claim 3, see the Applicant's admitted prior art, page 2, lines 22-24.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Ha whose telephone number is (703) 305-3507. The examiner can normally be reached on M-F 9:00-5:00(EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and 308-3432 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-. 0956.

Nathan Ha August 6, 2002

> C. Olik Chaudhuri Supe Sugarvisory Patentilisaniner Tech Text Splocy Cearo (2800